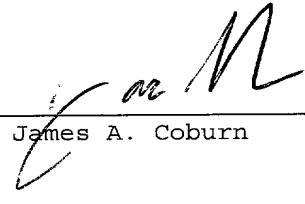


States Code and that such willful false statements may jeopardize the validity of the application or any patent resulting therefrom.

Respectfully submitted,

Aug. 20, 2001

Date


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Example

The expression of the human PEM in various brain tissues was analyzed by semi-quantitative PCR. To this end, the following primers were used:

Sense 5'-ATGGCGCGTTCGCTCGTCCACGAC-3', (SEQ ID NO 4)

Antisense 5'-TAGTCCACGACGATGTAGACACAG-3'. (SEQ ID NO 5)

In the control, specific primers for beta-actin were used:

Sense primer 5'-CTAGAACATTGCGGTGGACGATGGAGGG-3', (SEQ ID NO 6)

Antisense primer 5'-CTAGAACATTGCGGTGGACGATGGAGGG-3'. (SEQ ID NO 6)

The cDNA was acquired by Invitrogen (Carlsbad, CA, USA).

The PCR analysis was performed with the Advantage-2 PCR kit (Clontech). The reaction conditions were as follows:

initially 5 minutes at 95°C; then 30 cycles with 95°C for 30 seconds, 62°C for 30 seconds and 72°C for 1 minute; finally 72°C for 7 minutes. The results show an elevated expression of human PEM in the frontal and temporal lobes in Alzheimer patients in comparison to healthy tissue.